CLAIMS

1.   A radio transmission apparatus comprising:

an outer coding section that performs different coding processing on transmission data depending on the number of retransmissions;

an inner coding section that performs inner coding processing on coded data subjected to outer coding processing; and

a transmitter that transmits by radio the coded data subjected to the inner coding processing.

2.   The radio transmission apparatus according to claim 1, wherein:

the outer coding section has:

an interleaver that performs interleaving on transmission data using different interleaving patterns depending on the number of retransmissions; and

a Reed-Solomon coder that performs Reed-Solomon coding processing on the interleaving-processed transmission data; and

the inner coding section has a turbo coder.

3.   The radio transmission apparatus according to claim 1, wherein the transmitter performs frequency-hopping OFDM processing on the coded data, and transmits said data by radio.

4.   A radio reception apparatus that receives and decodes signals which are obtained by performing different outer coding processing on transmission data

5   for each retransmission and transmitted, said reception apparauts comprising:

a combiner that combines information bits corresponding to the number of retransmissions subjected to inner coding processing;

10   an inner code decoding section that inner-code decodes the information bits combined in the combiner and an outer code parity bit; and

an outer code decoding section that decodes the information bits obtained in the inner code decoding

15   section using different outer code parity bits corresponding to the number of retransmissions.

5.   A Radio transmission method for performing concatenated coding processing on transmission data and

20   transmitting said data by radio, said method comprising performing different outer coding processing on the transmission data for each retransmission.

6.   The radio transmission method according to claim

25   5, wherein the outer coding processing comprises Reed-Solomon coding processing and inner code processing comprises turbo coding processing.